

SUMMARY OF THE INVENTION

This invention describes the obtainment of impact-resistant materials from a block copolymer that comprises as monomers an alkadiene (conjugated diene) and a vinyl aromatic compound, which is used as impact modifier to obtain such materials and in which, at least, one of the blocks of the vinyl aromatic compound is polydisperse. The invention allows obtaining morphologies such as rods, points or capsules by incorporating such copolymer into a polymeric matrix derived from vinyl aromatic monomers independently from other agents such as chain transfer agents, and achieving increases in the impact values up to 50 % through the use of the copolymer of this invention.

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